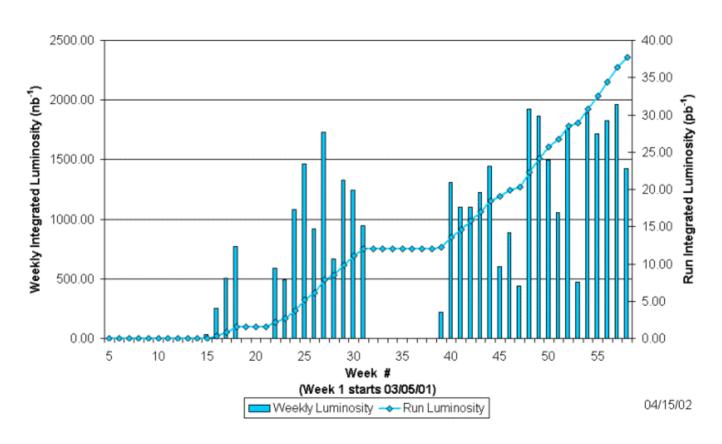
## Integrated Luminosity

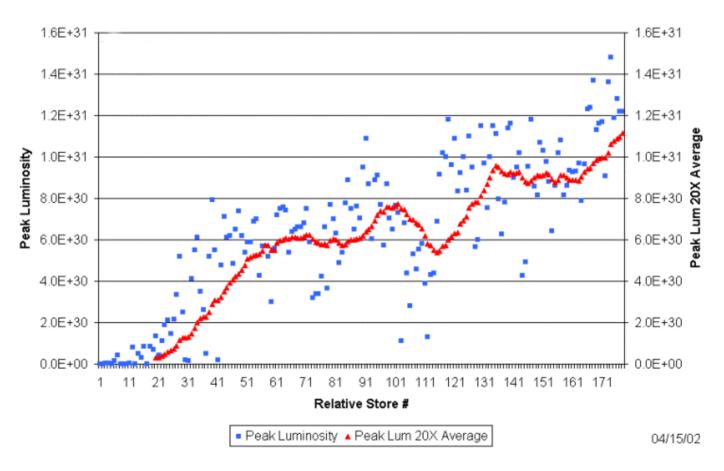
#### Collider Run IIA Integrated Luminosity



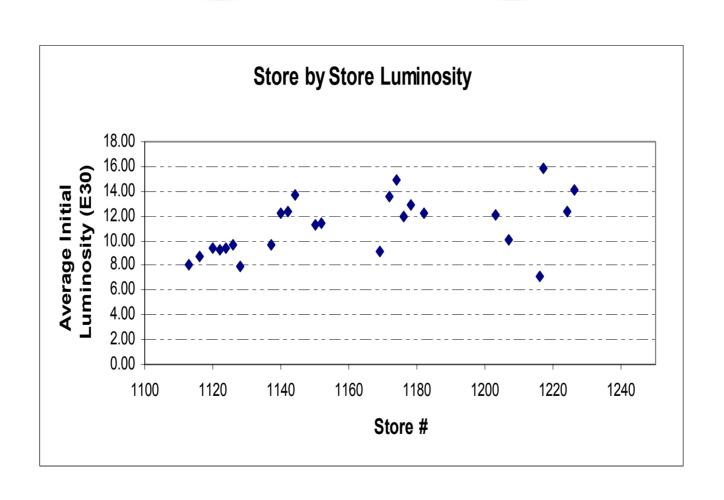
#### Peak Luminosity



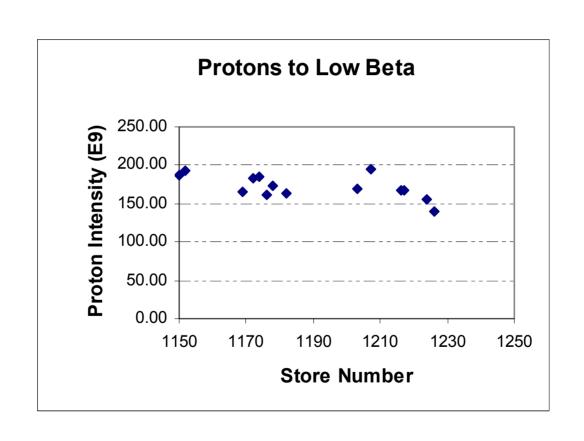
#### Collider Run IIA Peak Luminosity



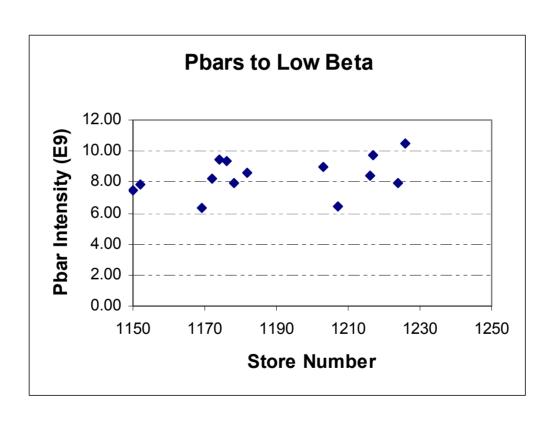
#### Initial Luminosity



#### Protons to Collision



#### Phars to Collision

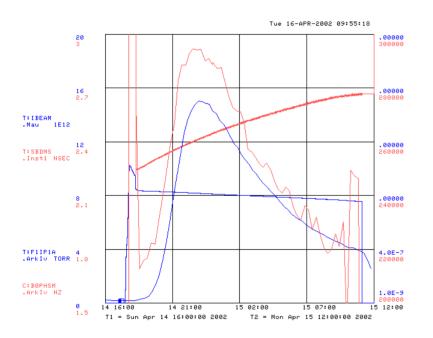


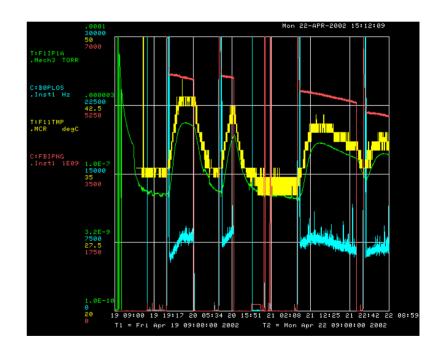
#### Tevatron Studies Summary

- F11 bake
- 150 GeV lifetime
- Octupole study
  - -stabilize beam w.low chromaticity
- Experimental support
  - –proton only stores

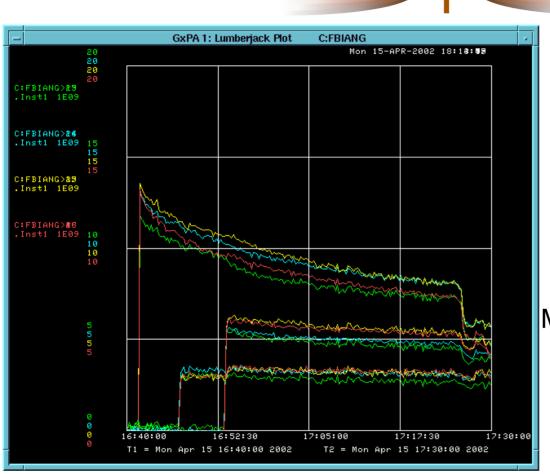
#### Tevatron Studies Summary







#### Tevatron Studies Summary



MI Hor Scraped Emittance

? A1-4

 $9\pi$  A13-16

 $12.3\pi$  A25-28

Measured Vertical Emittance

 $32\pi$  A1-4

 $12\pi$  A13-16

 $18\pi$  A25-28

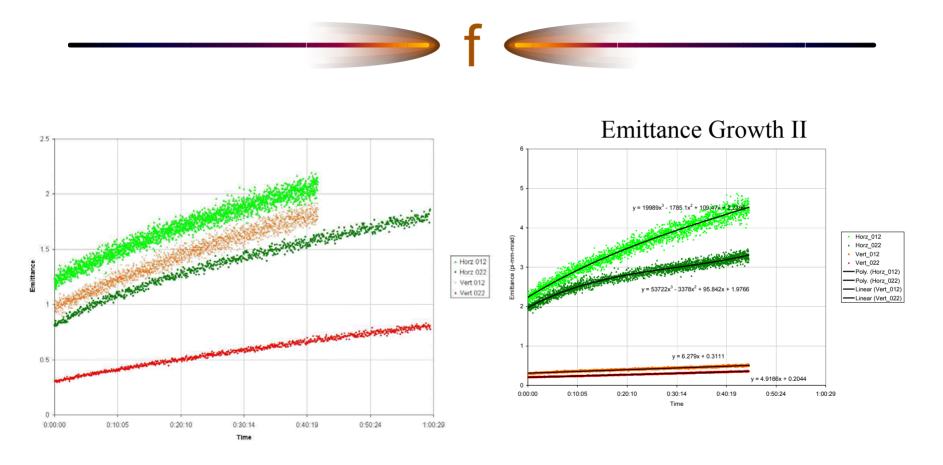


Transverse thermostat



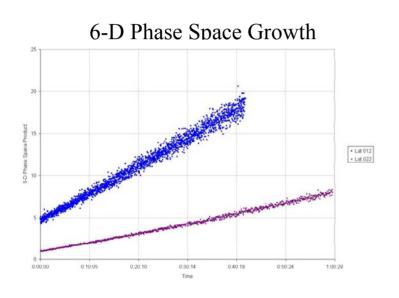
- Pbar stack moved to central orbit
- change the lattice
- compare heating rates
- Conclusions previous week
  - The 4-D and 6-D phase space products showed almost a factor of 3 lower emittance and growth rate
  - The initial conditions between the current lattice and the study lattice were not the same, another study needed

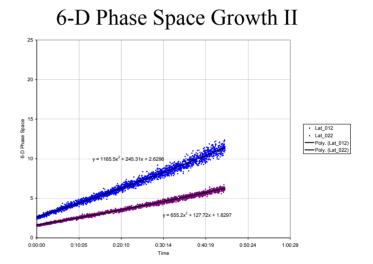
- New lattice IBS studies this week
  - Pbar stack moved to central orbit
  - change the lattice
  - compare heating rates
- Conclusions this week
  - Effect of IBS less conclusive
  - Modeling
  - More study time



**Transverse Heating Rates** 









#### MI Studies Summary



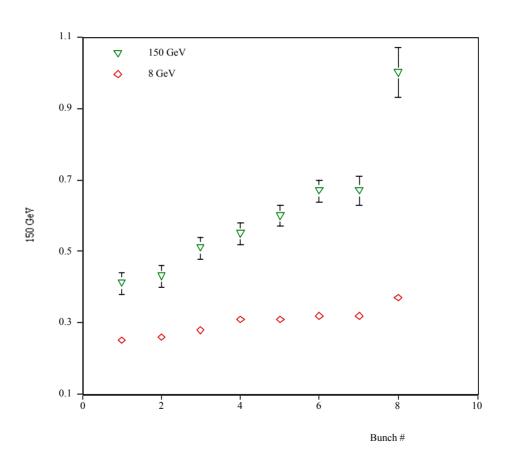
- Beam loading compensation
- Longitudinal emittance

#### MI Studies Summary

- Applied feed forward beam loading compensation on two RF stations (stations1, 2) by using the same up-convert/down-convert module and the fan-out cables from the MI-60 control room.
- All the parts needed to modify the rest of the rf stations have been received.
- It is estimated that will take 8-10 hours to modify the rest of the 16 RF stations.

# MI Studies Summary





All Experimenters Meeting

#### Recycler Studies Summary

